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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/915,437	07/26/2001	Sang Hoo Dhong	AUS9-2001-0301US1 7370 EXAMINER	
35236	7590 03/29/2005			
THE CULBERTSON GROUP, P.C. 1114 LOST CREEK BLVD.			TAT, BINH C	
SUITE 420	CREEK BLVD.		ART UNIT	PAPER NUMBER
AUSTIN, T	X 78746		2825	
			DATE MAILED: 03/29/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
0.65	09/915,437	DHONG ET AL				
Office Action Summary	Examiner	Art Unit				
	Binh C. Tat	2825				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be timwithin the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26 Ju	<u>ly 2001</u> .					
)☐ This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	•					
9) The specification is objected to by the Examine	ſ.					
10)⊠ The drawing(s) filed on <u>26 July 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	,; -					
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) LInterview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal P	atent Application (PTO-152)				
Paper No(s)/Mail Date S. Patent and Trademark Office	6)					

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DETAILED ACTION

1. This office action is in response to application 09/915437 filed on 07/26/01.

Claims 1-18 remain pending in the application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Yee et al., "Dynamic Logic Synthesis," IEEE, 1997, pp 345-348.
- 4. As to claims 1, 8, 13, and 14 Yee et al. teach a method of designing a logic circuit to provide a predetermined logical operation, the method including the steps of: (a) defining a logic synthesis block comprising a dynamic logic circuit (see fig 7 pp 345); (b) performing logic synthesis for the predetermined logical operation to produce an intermediate circuit, the logic synthesis being performed utilizing a synthesis library constrained to the logic synthesis block (see fig 1-8 pp 345-347); (c) eliminating unused devices in the intermediate circuit to produce a final circuit (see fig 1 fig 7 fig 8 pp 347); and (d) sizing the devices in the final circuit (see fig 1 fig 7 fig 8 pp 347).
- 5. As to claim 2, 9, and 15 Yee et al. teach wherein the step of defining the logic synthesis block includes selecting the largest practical dynamic AND/OR circuit for the integrated circuit fabrication technology in which the circuit is to be implemented (see fig 8 pp 347).

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6. As to claim 3, 10, and 16 Yee et al. teach wherein the logic synthesis block comprises a four high and four wide dynamic AND/OR circuit (see fig 8 pp 347).

- 7. As to claim 4, 11, and 17 Yee et al. teach wherein the step of performing logic synthesis includes leaving the size of the devices in the logic synthesis block substantially unconstrained (see fig 1 fig 7 fig 8 pp 347).
- 8. As to claim 5, Yee et al. teach wherein the step of eliminating unused devices from the intermediate circuit includes detecting devices having a state that remains constant as the intermediate circuit operates to provide the predetermined logical operation (see fig 2-6 and fig 8 pp 346-347).
- 9. As to claim 6, Yee et al. teach wherein the step of sizing the devices in the final circuit includes analyzing the final circuit to determine the characteristics of each device in the final circuit necessary in order to consistently provide the predetermined logical operation and meet drive requirements (see fig 1-8 pp 345-347).
- 10. As to claim 7, 12, and 18 Yee et al. teach wherein the logic synthesis block uses a single activation/reset clock signal (see fig 2-6 and fig 8 pp 345-347).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh C. Tat whose telephone number is (703) 305-4855. The examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew Smith can be reached on (703) 308-1323. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Binh Tat Art unit 2825 March 15, 2005

Moundo THUAN DO Primary examiner. 3/21/2005